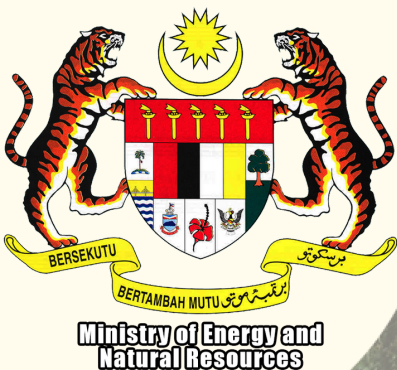


MALAYSIA BIODIVERSITY
INFORMATION SYSTEM (MYBIS)

YEAR IN REVIEW 2021



Ministry of Energy and
Natural Resources



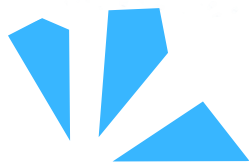
www.mybis.gov.my

Merbau tree
Instia palembanica

Whiskered Treeswift
Hemiprocne comata



CONTENTS

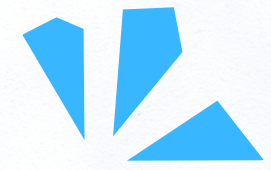


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LIST OF ABBREVIATIONS



ABS	Access and Benefit-Sharing
CBD	Convention on Biological Diversity
CEPA	Communication, Education and Public Awareness
FPMO	Flora of Peninsular Malaysia Online
FRIM	Forest Research Institute Malaysia
IAS	Invasive Alien Species
KeTSA	Ministry of Energy and Natural Resources
MyABS	Malaysia Access and benefit-sharing
MyBIS	Malaysia Biodiversity Information System
MyCHM	Malaysia Clearing House Mechanism
NAP IAS	National Action Plan on Invasive Alien Species
NCTF	National Conservation Trust Fund
NPBD	National Policy on Biological Diversity
NRE	Ministry of Natural Resources and Environment
PA	Protected Area
RMK	Rancangan Malaysia Ke-
SSN	Species Serial Number





OVERVIEW

MyBIS welcomes you to celebrate our achievements and reflect on our journey through our Year in Review 2021. We have made it thus far due to the relentless efforts of experts and supporting staff as well as the support of our contributors, agencies and the public.

This year marks the 5th-year anniversary of MyBIS as Malaysia's holistic one-stop biodiversity database. Although we faced a difficult period during the recent Covid-19 pandemic, we took it as a challenge to improve our deliverance on the Malaysian biodiversity for users to discover and experience.

Here at MyBIS we strived our hardest to disseminate information regarding our rich biodiversity to the masses. This year, we hosted webinars and online discussions in response to the Movement Control Order (MCO) and Standard Operating Procedures (SOPs) imposed by the government to prevent the further outbreak of Covid-19. MyBIS is grateful as these online events were celebrated by eager participants locally and outside of Malaysia.

Meaningful collaborations throughout this year has also led to the publication of two new books, Bats of Malaysia and Land Snakes of Malaysia, which will be available digitally for download. Our team hopes that these books will not only make knowledge more accessible to the public, but also spark important conversations between stakeholders and relevant organisations to prioritise the conservation of our biodiversity.

Please enjoy our Year in Review 2021 as MyBIS prepares to spearhead into 2022. Thank you.

Dr. Khairul Naim bin Adham
Under Secretary
Division of Biodiversity Management
Ministry of Energy and Natural Resources



HISTORY



Malaysia Biodiversity Information System (MyBIS) website is a rebranding from the Malaysia Clearing House Mechanism (MyCHM) website. The biodiversity database was developed and administered by Forest Research Institute Malaysia (FRIM) since 2005. It is available via www.mybis.gov.my. In the past fifteen years, the website underwent three transitional phases.

PHASE 1 (2005-2011)

- Flora of Peninsular Malaysia Online (FPMO) was launched on 2005 to store data on flora collected since 1995.
- The first phase of the Malaysia CHM was launched in 2008. It initially did not contain biodiversity data but was link to the FPMO website.
- Registered users could access several biodiversity databases which were linked to photographs and newsletters.
- The website also provided links to multilateral agreements which were pertinent to Malaysia and other biodiversity websites that contained information on Malaysian biodiversity.

PHASE 2 (2011-2015)

- On 2010, the FPMO website was merged to a new website to accommodate the fauna information, enhancing the search engine to facilitate user access on the database.
- The website was renamed to Malaysia Biodiversity Clearing House Mechanism (MyCHM) and could be accessed via www.chm.frim.gov.my.
- On 15 May 2012, MyCHM was officially launched by introducing several new modules in the website such as the Taxon Data Information Sheet (for biodiversity assessment), Spatial Data for Malaysian Protected Areas, Biodiversity Expert, Newsletters & Publications and E-references.

PHASE 3 (2015-Present)

- The rebranding process of MyCHM to Malaysia Biodiversity Information System (MyBIS) started in 2016 and was officially launched by YB Dato Sri Dr. Haji Wan Junaidi Tuanku Jaafar on 21 Sept 2017.
- The main focus of MyBIS is to provide statistical analysis on biodiversity and advanced searches as well as to make the website more user-friendly.
- Currently, MyBIS is owned by the Ministry of Energy and Natural Resources (KeTSA) and FRIM acts an administrator .
- KeTSA and FRIM collaborated with multiple stakeholders to conduct workshops, seminars and CEPA, that are financed by KeTSA via RMK fund.





MyBIS PLAN

Below are the existing websites under MyBIS

MyBIS

Malaysia Biodiversity Information System (MyBIS) to be a one-stop repository for biodiversity information in Malaysia. MyBIS provides the information exchange platform of the Convention on Biological Diversity. Created in accordance with Article 18(3), it has evolved into a global network of websites with the CBD website (www.cbd.int) as its central node, and MyBIS as national nodes of the network.

Link: <https://www.mybis.gov.my/>

Fb: <https://www.facebook.com/mybisgovmy>

Tw: <https://www.twitter.com/mybisgovmy>



MyABS

Access and benefit-sharing (ABS) refers to a set of rules and principles governing the use of biological resources, or in other words, the way in which biological resources may be accessed, and how users and providers of biological resources reach agreement on the fair and equitable sharing of benefits that might arise from their utilisation. Hence, MyABS is a platform for applicant to apply permit for access to biological resources and to manage the applications online.

Link: <https://www.myabs.gov.my/>

Fb: <https://www.facebook.com/myabsgovmy>

Tw: <https://www.twitter.com/myabsgovmy>



100 Million Tree-Planting Campaign

The implementation of this campaign aims to raise awareness of all parties on the importance of green cover areas and forests for the well-being and quality of life as well as efforts to improve the ecosystem and biodiversity of our country. The campaign also aims to preserve, conserve, and increase the country's green coverage area in Malaysia. Hence, the 100 Million Tree portal and apps are to store data species of plants and plants distribution in Malaysia.

Link: <https://www.100jutapokok.gov.my/>

Fb: <https://www.facebook.com/100jutapokok>

Tw: <https://www.twitter.com/100jutapokok>

#PokokKitaKehidupanKita

#OurTreesOurLife





FUTURE PLAN

Below are the future website to be develop in 2022

NCTF

The National Conservation Trust Fund (NCTF) was established to carry out activities related to conservation efforts such as communication; education and public awareness; research and development; management; protection; and climate change mitigation and adaptation. Hence, NCTF website acts as a platform for applicant to apply the fund and to manage the applications online.

IAS

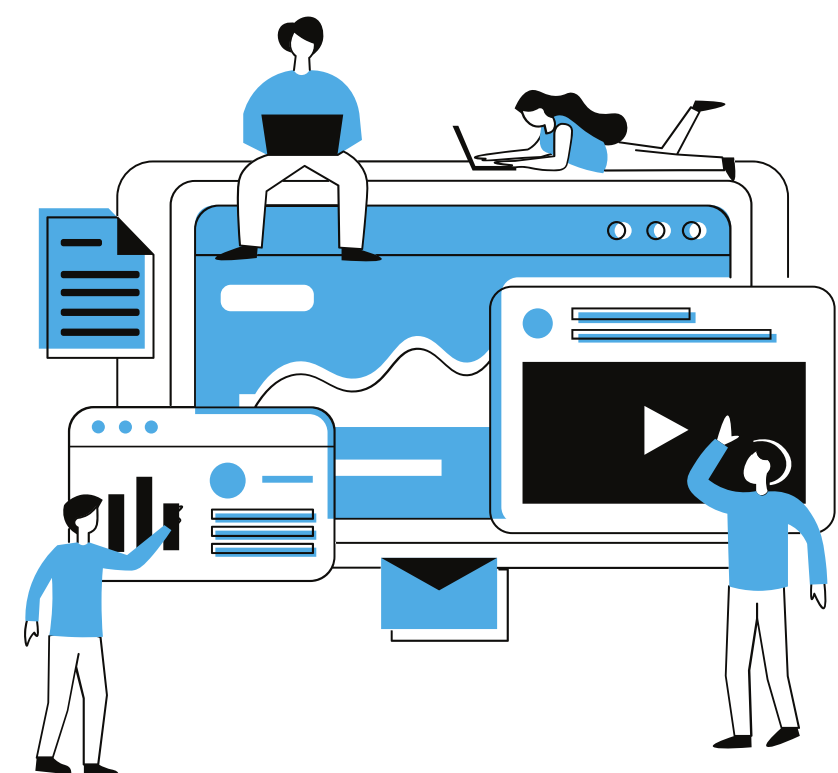
The effort to maintain, report and systematize data information biodiversity under the MyBIS platform from the threats of IAS through Malaysia National Action Plan on Invasive Alien Species 2021-2025 (NAP IAS 2021-2025).

The NAP IAS 2021 – 2025 framework is aligned with Target 11 of National Policy on Biological Diversity (NPBD) 2016 – 2025 and Target 9 of Aichi Biodiversity Targets; Convention on Biological Diversity (CBD) on identification, prioritization, and prevention of the introduction and establishment of IAS.

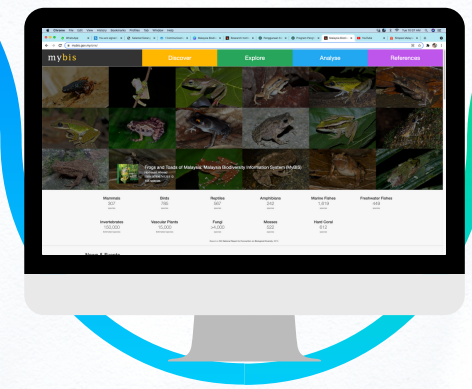


NPBD

To control and monitor implementing agency to update activity data for biodiversity management for each target goal set in the National Policy on Biological Diversity (NPBD 2016-2025). To conserve biodiversity, promote sustainable use, and ensure fair and equitable sharing of benefits resulting from resource use biology.



MyBIS MODULES

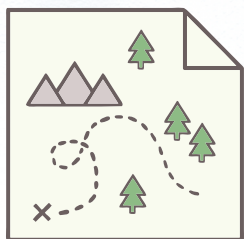


DISCOVER

First Module



The public can easily search information about the species through sorting by species, specimen, photos and structures.



Explore Module provides information on protected areas in Malaysia, which include the history and geographical of Malaysia.

EXPLORE

Second Module



This module covers dataset (summary of Malaysia's overall biodiversity richness), maps (numbers of PA by state and area [ha]) and timeline records in MyBIS.

ANALYSIS

Third Module



References Module covers directory of biodiversity experts from various agencies / institutions / universities, a library for biodiversity-related literature and glossary.

REFERENCES

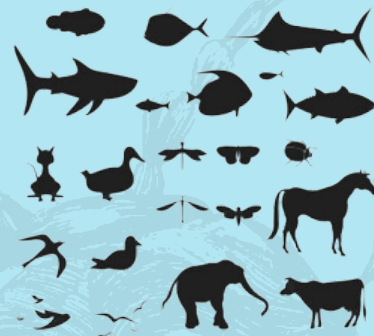
Fourth Module

Malaysia Biodiversity Information System : in number

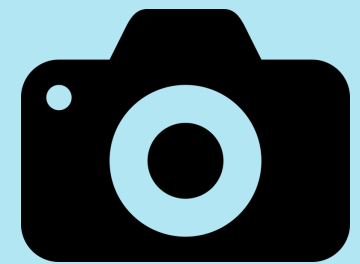
Total metrics (as of 31 Dec 2021)



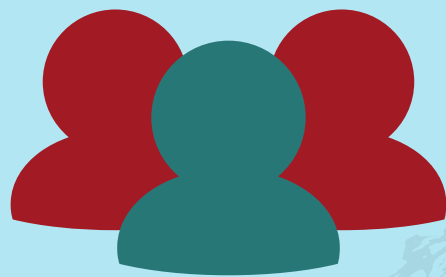
206
Newsletters



46,374
Number of species



11,080
Photos



7,385
Registered MyBIS users



582
Registered MyBIS experts



250,794
Number of visitors



22
Specimen Collections Centres



COLLECTION CENTRE

The LARGEST and OLDEST wood collection in Malaysia

The Kepong wood (KEPw) collection or Xylarium in FRIM was founded in 1918. To date, there 10,036 wood specimens collection from 108 families, 426 genera and 1,587 species. These specimens are used as reference materials for wood identification services and scientific research in wood anatomical study. As of 2021, there are 14 wood specimens aged between 116 and 121 years, these include keruing (*Dipterocarpus caudatus*, *D. cornutus*, *D. costulatus*, *D. kerii*, *D. rigidus*, *D. stellatus*, *D. submellatus* and *D. verrucosus*), balau (*Shorea lumutensis*) and red balau (*Shorea collina*). These wood specimen did not show any sign of insect or fungal attack and it shows that Malaysian timbers can last for more than 100 years.

Image: Anatomy of merbau wood (*Intsia palembanica*)

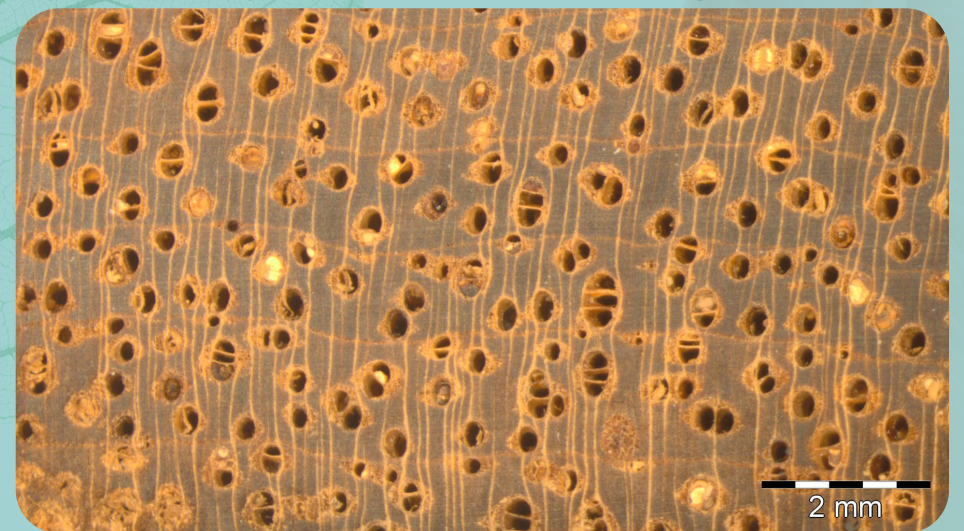
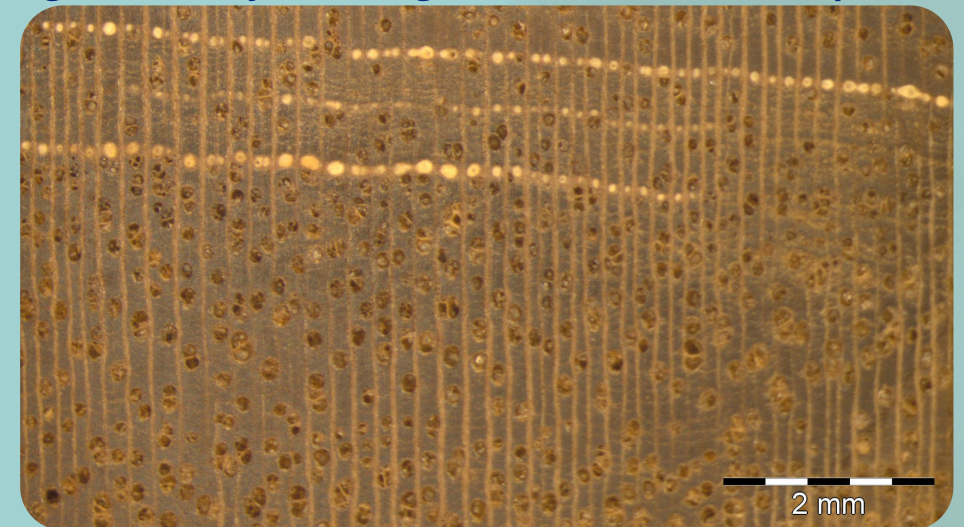


Image: Anatomy of Chengal wood (*Neobalanocarpus heimii*)

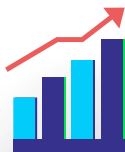


Xylarium FRIM

CITIZEN SCIENCE

100 Million Tree-Planting Campaign

The implementation of the Malaysian Greening Program through the nationwide 100 Million Tree-Planting Campaign under the 12th Malaysian Plan was announced by the YAB Prime Minister while chairing the 77th National Land Council (MTN) Meeting on the 8th of September 2020. This campaign was launched and implemented throughout the country on the 5th of January 2021.



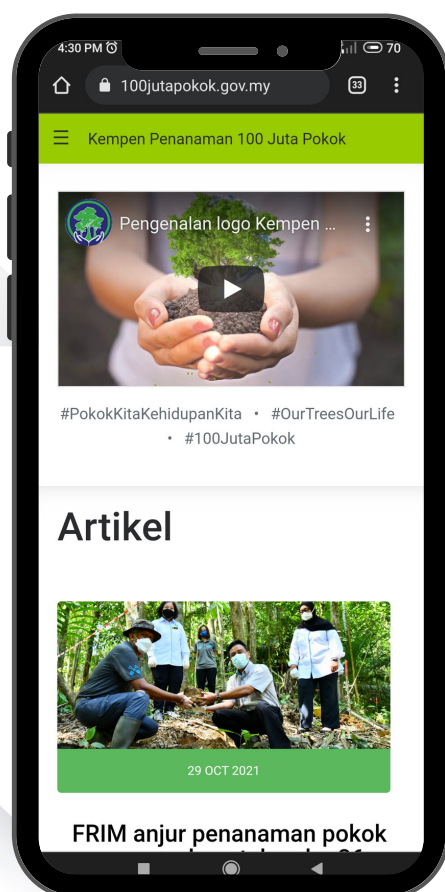
Number of Trees Planted: 25,822,891



Number of Trees Species Planted: 950



Number of Users Registered: 4,653



The Ministry of Energy and Natural Resources promotes and encourages state governments, ministries and departments, as well as related federal/state government agencies, private and corporate companies, non-governmental organisations, educational institutions and the general public to participate and cooperate in making the campaign a success.









For more informations, visit the link or scan the QR Code below



<https://www.100jutapokok.gov.my>
#PokokKitaKehidupanKita
#OurTreesOurLife



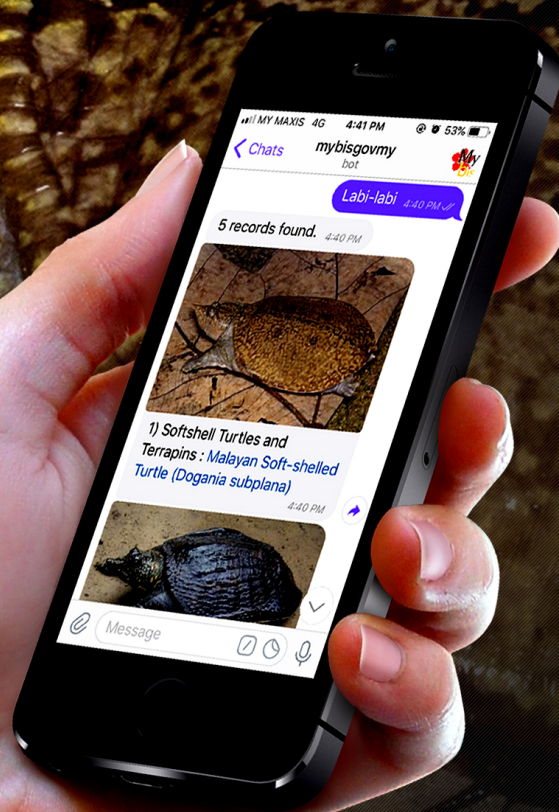
TOP 10 Countries visited MyBIS 2020-2021

	Malaysia	161,387 (65.81%)
	Indonesia	13,430 (5.48%)
	United States	11,207 (4.57%)
	Singapore	6,981 (2.85%)
	India	5,752 (2.35%)
	Philippines	5,271 (2.15%)
	China	5,085 (2.07%)
	Thailand	4,222 (1.72%)
	United Kingdom	2,360 (0.96%)
	Australia	2,013 (0.82%)



MyBIS BOT

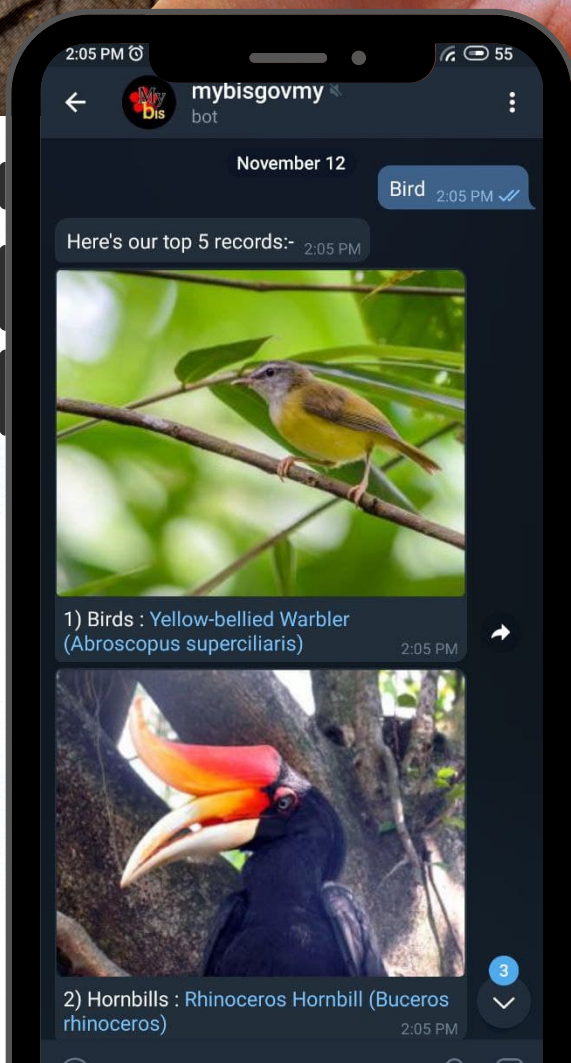
with Telegram



1. Open Telegram app
2. Search contact 'mybisgovmy'
3. Start your search with *Scientific Name*, *Common Name*, *Keyword*, or *MyBIS Species Serial Number (MyBIS SSN)*.

or visit telegram.me/mybisgovmybot

Dogania subplana photo by Dr. Teo Eng Wah



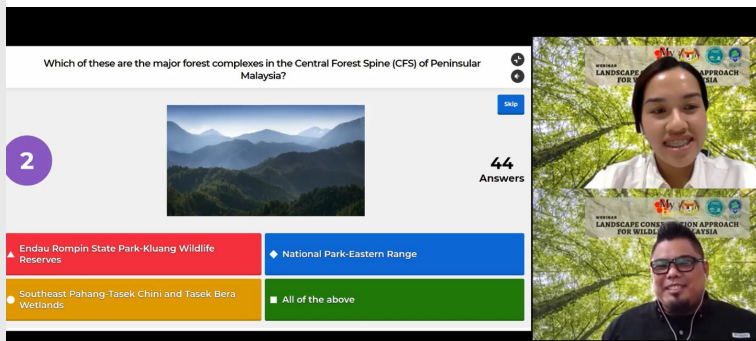
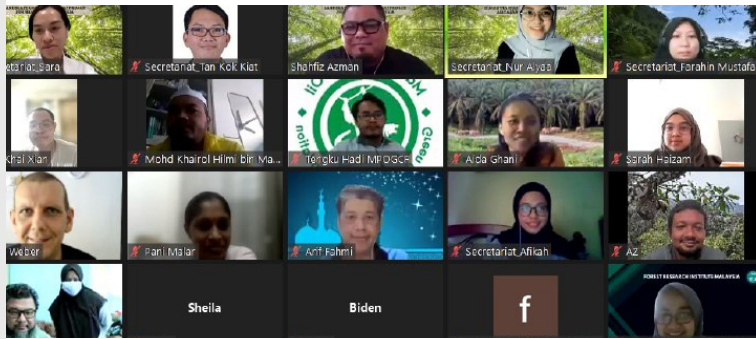

MyBIS Telegram

With 47,000 species profiles on the MyBIS website, a more convenient way to do searching on the MyBIS website is by using the Telegram Bot. MyBIS bot help users to find specific species profiles on the MyBIS website in the easier way and shorter time. By typing the scientific name, keyword, common name, or MyBIS SSN and clicking send, the MyBIS bot will list all the related species in the chats. The lists are shown based on records found on the MyBIS website. Next, users can choose the species of interest and click on the link given. The link will redirect to the species profile on the MyBIS website with more information.

MYBIS ACTIVITIES



Webinars

MOHAMMAD SHAHFIZ AZMAN
Head of Zoology Branch
Fauna Biodiversity Program
Forest Biodiversity Division
Forest Research Institute Malaysia
(FRIM)

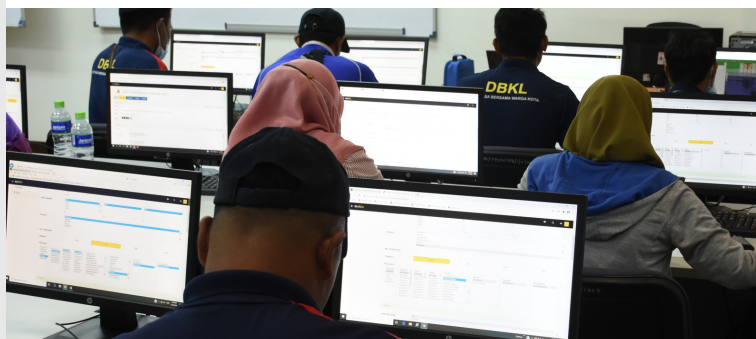
- Attached to FRIM since 2006.
- Bachelor of Science Degree (with Hons), Animal Resource Science and Management, University Malaysia Sarawak (UNIMAS).
- Scope of research: Landscape ecology related to vertebrates.
- Actively involved with numerous policies related to conservation biodiversity such as CITES, Central Forest Spine (CFS), Environmentally Sensitive Areas (ESA) and Heart of Borneo (HoB).
- Led several research projects and published several peer-reviewed journals, international and national proceedings, articles, and other forms of publications related to biodiversity and conservation.



Exhibitions



Workshops



MYBIS ACTIVITIES



25 February 2021

MyBIS Specimen Module Online Workshop (Google Meet)
with lecturers from University of Malaya (UM)

3 August 2021

MyBIS Specimen Module Usage Training with UM practical
students

13 August 2021

MyBIS Webinar on 'Landscape Conservation Approach for
Wildlife in Malaysia'

1-30 September 2021

Online CEPA- My Extraordinary Pets Video Contest

15 October 2021

Workshop on Strengthening the Use of Zoom Application
for Online CEPA Program Management

11 November 2021

MyBIS Exhibition in conjunction with the Opening
Ceremony of the International Forest Day (HHA) and the
Central Forest Spine Region (CFS) Declaration at the
Selangor State Level in 2021




Fun Facts on MyBIS




TOP 3 MOST VIEWED NATIVE SPECIES IN MYBIS

1  Blue Malaysian Coral Snake
Calliophis bivirgatus
5,625 views
© Dr. Teo Eng Wah


2  Damar Minyak
Agathis borneensis
5,065 views
© Yasser Arifin

3  Merawan Kanching
Hopea subalata
5,031 views
© L.S.L. Chua

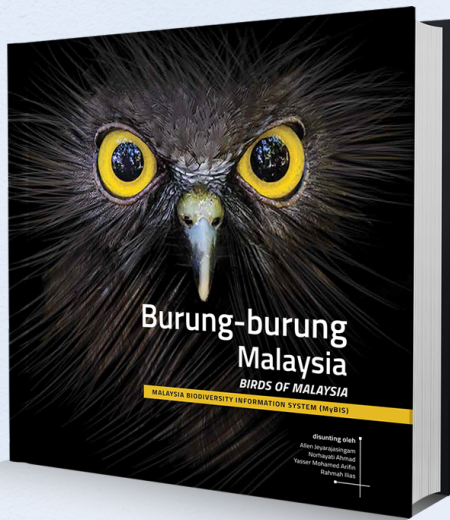
TOP 3 MOST READ NEWSLETTER IN MYBIS

1  Malayan Tiger
Panthera tigris jacksoni
5,258 views
© Abdul Razak Mohd Nor Rasid

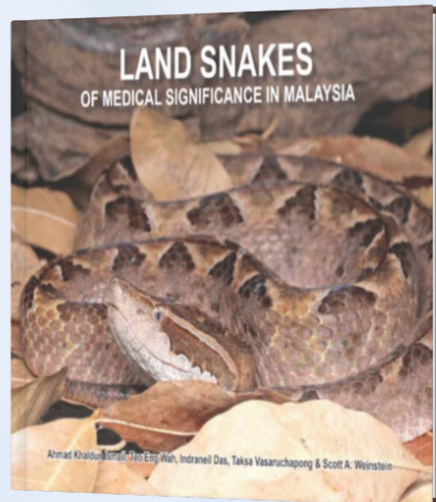
2  Simpoh Air
Dillenia suffruticosa
3,783 views
© Sam Yen Yen

3  Madagascar Periwinkle
Catharanthus roseus
3,707 views
© Abdul Razak Mohd Nor Rasid

MyBIS PUBLICATIONS



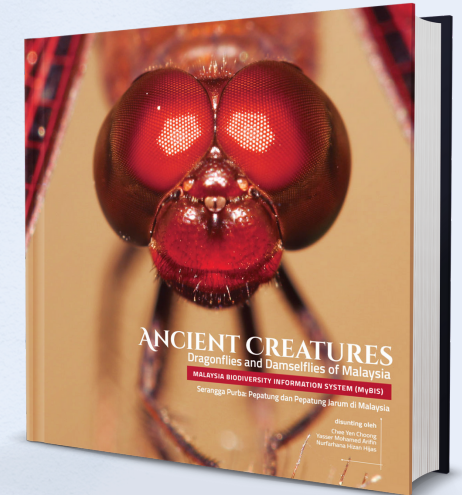
Burung-burung Malaysia :
Malaysia Biodiversity Information System



Land Snakes of Medical Significance
in Malaysia (2nd Edition)



Frogs and Toads of Malaysia: Malaysia
Biodiversity Information System (MyBIS)



Ancient Creatures:
Dragonflies and Damselflies of Malaysia



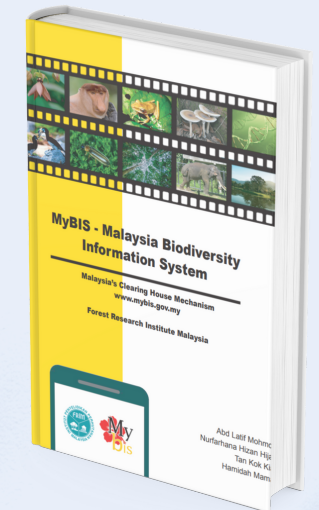
Mangrove Flora of Malaysia: Malaysia
Biodiversity Information System (MyBIS)



Royal Belum-Temengor Rainforest :
The Hidden Treasure of Perak



Fishes of North Selangor
Peat Swamp Forest



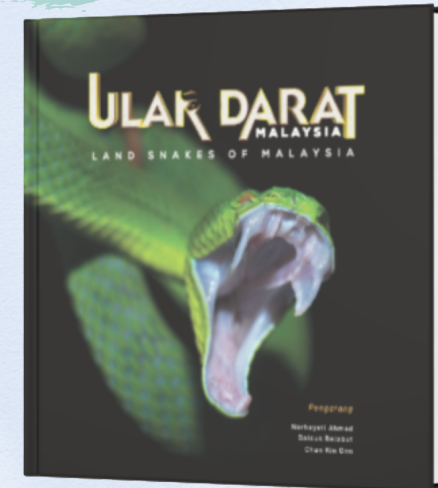
MyBIS - Malaysia Biodiversity
Information System, Malaysia's Clearing
House Mechanism



Threatened Bird Species of Malaysia



Kelawar Malaysia / Bats of Malaysia



Ular Darat Malaysia / Land Snakes of Malaysia

COLLABORATORS

Government Agencies

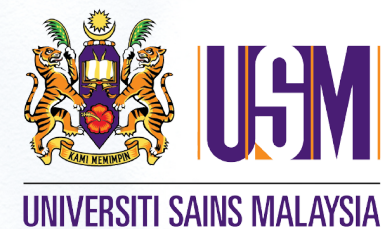


JOHOR
NATIONAL PARKS



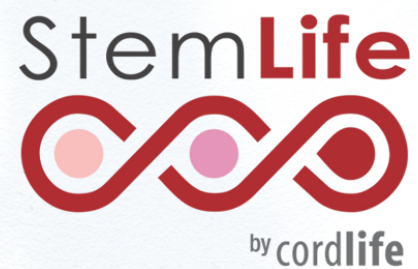
COLLABORATORS

Academia



COLLABORATORS

Companies/NGO



Acknowledgement

A heartfelt thanks to the Ministry of Energy and Natural Resources and FRIM for their continuous support, both financially and administratively, of which without these, MyBIS would not achieved its status today.

We are indebted to our contributors and personnels who had contributed the data and photographs into MyBIS. Sincere thanks goes to all collection centres which had provided their valuable collection data for the usage in MyBIS, hence becoming a one-stop repository centre of biodiversity data in Malaysia.

Last but not least, we would like to thank the people who had directly or indirectly involved in realising the publication of this report.

See you next year in 2022!

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Dr. Nordahlia Abdullah Siam



Nurfarhana Hizan Hijas



Dr. Sam Yen Yen



Yasser Mohamed Arifin